



DEPARTMENT OF THE AIR FORCE
59TH MEDICAL WING (AETC)
JOINT BASE SAN ANTONIO - LACKLAND TEXAS



14 July 2017

MEMORANDUM FOR SGOM5E

ATTN: LT COL IRENE FOLARON

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

1. Your paper, entitled Diabetes in Combat: Effect of Military Deployment on Diabetes Mellitus in Air Force Personnel presented at/published to Military Health System Research Symposium, Kissimmee, FL 27-30 Aug 2017 in accordance with MDWI 41-108, has been approved and assigned local file #17277.
2. Pertinent biographic information (name of author(s) title, etc.) has been entered into our computer file. Please advise us (by phone or mail) that your presentation was given. At that time, we will need the date (month, day and year) along with the location of your presentation. It is important to update this information so that we can provide quality support for you, your department, and the Medical Center commander. This information is used to document the scholarly activities of our professional staff and students, which is an essential component of Wilford Hall Ambulatory Surgical Center (WHASC) internship and residency programs.
3. Please know that if you are a Graduate Health Sciences Education student and your department has told you they cannot fund your publication, the 59th Clinical Research Division may pay for your basic journal publishing charges (to include costs for tables and black and white photos). We cannot pay for reprints. If you are a 59 MDW staff member, we can forward your request for funds to the designated Wing POC at the Chief Scientist's Office, Ms. Alice Houy, office phone: 210-292-8029; email address: alice.houy.civ@mail.mil.
4. Congratulations, and thank you for your efforts and time. Your contributions are vital to the medical mission. We look forward to assisting you in your future publication/presentation efforts.

LINDA STEEL-GOODWIN, Col, USAF, BSC
Director, Clinical Investigations & Research Support

PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

INSTRUCTIONS

USE ONLY THE MOST CURRENT 59 MDW FORM 3039 LOCATED ON AF E-PUBLISHING

1. The author must complete page two of this form:
 - a. In Section 2, add the funding source for your study [e.g., 59 MDW CRD Graduate Health Sciences Education (GHSE) (SG5 O&M); SG5 R&D; Tri-Service Nursing Research Program (TSNRP); Defense Medical Research & Development Program (DMRDP); NIH; Congressionally Directed Medical Research Program (CDMRP) ; Grants; etc.]
 - b. In Section 2, there may be funding available for journal costs, if your department is not paying for figures, tables or photographs for your publication. Please state "YES" or "NO" in Section 2 of the form, if you need publication funding support.
2. Print your name, rank/grade, sign and date the form in the author's signature block or use an electronic signature.
3. Attach a copy of the 59 MDW IRB or IACUC approval letter for the research related study. If this is a technical publication/presentation, state the type (e.g. case report, QA/QI study, program evaluation study, informational report/briefing, etc.) in the "Protocol Title" box.
4. Attach a copy of your abstract, paper, poster and other supporting documentation.
5. Save and forward, via email, the processing form and all supporting documentation to your unit commander, program director or immediate supervisor for review/approval.
6. On page 2, have either your unit commander, program director or immediate supervisor:
 - a. Print their name, rank/grade, title; sign and date the form in the approving authority's signature block or use an electronic signature.
7. Submit your completed form and all supporting documentation to the CRD for processing (59crdpubspres@us.af.mil). **This should be accomplished no later than 30 days before final clearance is required to publish/present your materials.** If you have any questions or concerns, please contact the 59 CRD/Publications and Presentations Section at 292-7141 for assistance.
8. The 59 CRD/Publications and Presentations Section will route the request form to clinical investigations, 502 ISG/JAC (Ethics Review) and Public Affairs (59 MDW/PA) for review and then forward you a final letter of approval or disapproval.
9. Once your manuscript, poster or presentation has been approved for a one-time public release, you may proceed with your publication or presentation submission activities, as stated on this form. **Note:** For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.
10. If your manuscript is accepted for scientific publication, please contact the 59 CRD/Publications and Presentations Section at 292-7141. This information is reported to the 59 MDW/CC. All medical research or technical information publications/presentations must be reported to the Defense Technical Information Center (DTIC). See 59 MDW 41-108, *Presentation and Publication of Medical and Technical Papers*, for additional information.
11. The Joint Ethics Regulation (JER) DoD 5500.07-R, *Standards of Conduct*, provides standards of ethical conduct for all DoD personnel and their interactions with other non-DoD entities, organizations, societies, conferences, etc. Part of the Form 3039 review and approval process includes a legal ethics review to address any potential conflicts related to DoD personnel participating in non-DoD sponsored conferences, professional meetings, publication/presentation disclosures to domestic and foreign audiences, DoD personnel accepting non-DoD contributions, awards, honoraria, gifts, etc. The specific circumstances for your presentation will determine whether a legal review is necessary. **If you (as the author) or your supervisor check "NO" in block 17 of the Form 3039, your research or technical documents will not be forwarded to the 502 ISG/JAC legal office for an ethics review.** To assist you in making this decision about whether to request a legal review, the following examples are provided as a guideline:

For presentations before professional societies and like organizations, the 59 MDW Public Affairs Office (PAO) will provide the needed review to ensure proper disclaimers are included and the subject matter of the presentation does not create any cause for DoD concern.

If the sponsor of a conference or meeting is a DoD entity, an ethics review of your presentation is not required, since the DoD entity is responsible to obtain all approvals for the event.

If the sponsor of a conference or meeting is a non-DoD commercial entity or an entity seeking to do business with the government, then your presentation should have an ethics review.

If your travel is being paid for (in whole or in part) by a non-Federal entity (someone other than the government), a legal ethics review is needed. These requests for legal review should come through the 59 MDW Gifts and Grants Office to 502 ISG/JAC.

If you are receiving an honorarium or payment for speaking, a legal ethics review is required.

If you (as the author) or your supervisor check "YES" in block 17 of the Form 3039, your research or technical documents will be forwarded simultaneously to the 502 ISG/JAC legal office and PAO for review to help reduce turn-around time. If you have any questions regarding legal reviews, please contact the legal office at (210) 671-5795/3365, DSN 473.

NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement:

"The views expressed are those of the [author(s)] [presenter(s)] and do not reflect the official views or policy of the Department of Defense or its Components"

NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement for research involving humans:

"The voluntary, fully informed consent of the subjects used in this research was obtained as required by 32 CFR 219 and DODI 3216.02_AFI 40-402."

NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement for research involving animals, as required by AFMAN 40-401_IP :

"The experiments reported herein were conducted according to the principles set forth in the National Institute of Health Publication No. 80-23, Guide for the Care and Use of Laboratory Animals and the Animal Welfare Act of 1966, as amended."

PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

1. TO: CLINICAL RESEARCH	2. FROM: (Author's Name, Rank, Grade, Office Symbol) Folaron, Irene, Lt Col, O-5, SGOM5E	3. GME/GHSE STUDENT:	4. PROTOCOL NUMBER: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO FWH20160079H
5. PROTOCOL TITLE: (NOTE: For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.) Effect of Military Deployment on Diabetes Mellitus in Active Duty Air Force Personnel			
6. TITLE OF MATERIAL TO BE PUBLISHED OR PRESENTED: Diabetes in Combat: Effect of Military Deployment on Diabetes Mellitus in Air Force Personnel			
7. FUNDING RECEIVED FOR THIS STUDY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO FUNDING SOURCE:			
8. DO YOU NEED FUNDING SUPPORT FOR PUBLICATION PURPOSES: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
9. IS THIS MATERIAL CLASSIFIED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
10. IS THIS MATERIAL SUBJECT TO ANY LEGAL RESTRICTIONS FOR PUBLICATION OR PRESENTATION THROUGH A COLLABORATIVE RESEARCH AND DEVELOPMENT AGREEMENT (CRADA), MATERIAL TRANSFER AGREEMENT (MTA), INTELLECTUAL PROPERTY RIGHTS AGREEMENT ETC.? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO NOTE: If the answer is YES then attach a copy of the Agreement to the Publications/Presentations Request Form.			
11. MATERIAL IS FOR: <input checked="" type="checkbox"/> DOMESTIC RELEASE <input type="checkbox"/> FOREIGN RELEASE CHECK APPROPRIATE BOX OR BOXES FOR APPROVAL WITH THIS REQUEST. ATTACH COPY OF MATERIAL TO BE PUBLISHED/PRESENTED.			
<input type="checkbox"/> 11a. PUBLICATION/JOURNAL (List intended publication/journal.)			
<input type="checkbox"/> 11b. PUBLISHED ABSTRACT (List intended journal.)			
<input checked="" type="checkbox"/> 11c. POSTER (To be demonstrated at meeting: name of meeting, city, state, and date of meeting.) Military Health System Research Symposium, Kissimmee, FL, 27-30 Aug 2017			
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12. HAVE YOUR ATTACHED RESEARCH/TECHNICAL MATERIALS BEEN PREVIOUSLY APPROVED TO BE PUBLISHED/PRESENTED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO ASSIGNED FILE # 17149 DATE 16 Mar 2017			
13. EXPECTED DATE WHEN YOU WILL NEED THE CRD TO SUBMIT YOUR CLEARED PRESENTATION/PUBLICATION TO DTIC NOTE: All publications/presentations are required to be placed in the Defense Technical Information Center (DTIC).			
DATE August 01, 2017			
14. 59 MDW PRIMARY POINT OF CONTACT (Last Name, First Name, M.I., email) Folaron, Irene; irene.folaron.mil@mail.mil			15. DUTY PHONE/PAGER NUMBER 916-2672
16. AUTHORSHIP AND CO-AUTHOR(S) List in the order they will appear in the manuscript.			
LAST NAME, FIRST NAME AND M.I.	GRADE/RANK	SQUADRON/GROUP/OFFICE SYMBOL	INSTITUTION (If not 59 MDW)
a. Primary/Corresponding Author Folaron, Irene	O-5, Lt Col	959th MDOS/959th MDG	
b. Wardian, Jana L	CTR	959th MDSP/959th MDOG	
c. True, Mark W	O-6, Col	959th MDOS/959th MDG	
d. Sauerwein, Tom J	GS-15	959th MDSP/959th MDOG	
e.			
17. IS A 502 ISG/JAC ETHICS REVIEW REQUIRED (JER DOD 5500.07-R)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
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18. AUTHOR'S PRINTED NAME, RANK, GRADE Irene, Folaron, Lt Col, O-5		19. AUTHOR'S SIGNATURE FOLARON.IRENE.1145914724	20. DATE 1 June 2017
21. APPROVING AUTHORITY'S PRINTED NAME, RANK, TITLE Mark W. True, Col, O-6, Director of Medical Education, 59 MDW		22. APPROVING AUTHORITY'S SIGNATURE TRUE.MARK.W.1119949757	23. DATE 1 June 2017

PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS			
1st ENDORSEMENT (59 MDW/SGVU Use Only)			
TO: Clinical Research Division 59 MDW/CRD Contact 292-7141 for email instructions.	24. DATE RECEIVED July 11, 2017	25. ASSIGNED PROCESSING REQUEST FILE NUMBER 17277	
26. DATE REVIEWED 13 Jul 2017	27. DATE FORWARDED TO 502 ISG/JAC		
28. AUTHOR CONTACTED FOR RECOMMENDED OR NECESSARY CHANGES: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES If yes, give date. 13 Jul 2017 <input type="checkbox"/> N/A			
29. COMMENTS <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED The poster presentation is approved. The author provided the IRB approval letter for her research effort.			
30. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER Rocky Calcote, PhD, Clinical Research Administrator	31. REVIEWER SIGNATURE CALCOTE,ROCKY D.1178245844	32. DATE	<small>Digital signature of ROCKY D.1178245844 using DOD X.509 certificate issued by DOD PKI - MHSAF and CALCOTE,ROCKY D.1178245844 Date: 2017-07-13 14:32:47 -04'00'</small>
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39. DATE RECEIVED July 13, 2017	40. DATE FORWARDED TO 59 MDW/SGVU July 13, 2017		
41. COMMENTS <input checked="" type="checkbox"/> APPROVED (In compliance with security and policy review directives.) <input type="checkbox"/> DISAPPROVED			
42. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER Kevin Iinuma, SSgt/E-5, 59 MDW Public Affairs	43. REVIEWER SIGNATURE IINUMA,KEVIN MITSUGU.1296227	44. DATE	<small>Digital signature of IINUMA,KEVIN MITSUGU.1296227113 using DOD X.509 certificate issued by DOD PKI - MHSAF and IINUMA,KEVIN MITSUGU.1296227113 Date: 2017-07-13 14:32:47 -04'00'</small>
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45. DATE RECEIVED	46. SENIOR AUTHOR NOTIFIED BY PHONE OF APPROVAL OR DISAPPROVAL <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> COULD NOT BE REACHED <input type="checkbox"/> LEFT MESSAGE		
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Diabetes in Combat:

Effect of Military Deployment on Diabetes Mellitus in Air Force Personnel

1

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Introduction

- The United States (US) Air Force restricts military personnel with Diabetes Mellitus (DM) from participating in military deployments.
- Uncertainties in medical availability and capability in austere or combat settings place the military member with DM at risk for complications when subjected to the deployed environment.
- Military medical providers are required to assess members with chronic medical problems prior to deployment for deployment candidacy. Members can be deployed if their condition is not expected to worsen during deployment.
- However, there is a lack of knowledge regarding how military members with DM fare during a deployment.

Results

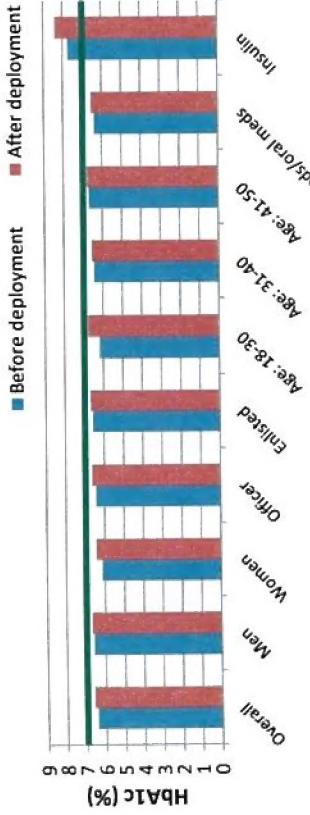
- 366 active duty US Air Force personnel with DM deployed for at least 90 days between January 1, 2004 and December 31, 2014

Gender		Rank		HbA1c prior to deployment (%)	
Male	288 (78.7%)	Enlisted	290 (79.2%)	<7	225 (81.5%)
Female	78 (21.3%)	Officer	76 (20.8%)	7.7-9	34 (12.3%)
		DM Medications		8-8.9	9 (3.3%)
		None	158 (43.2%)	29	8 (2.9%)
		BMI prior to deployment (kg/m ²)		18.5-24.9	46 (18.4%)
		Oral	118 (32%)	25-29.9	123 (49.2%)
		Insulin	25 (25%)	≥ 30	81 (32.4%)

Conclusions

- HbA1c remained stable before and after deployment for the overall population and subgroups.
- The majority of subjects had well-controlled DM prior to deployment with HbA1c <7%. Those requiring medications were mostly on oral agents, usually metformin.
- Groups requiring different DM medication types demonstrated differing responses in HbA1c. Those on oral medications only or no medications had no significant change in HbA1c before and after deployment. In contrast, those requiring insulin demonstrated a concerning pattern of HbA1c increase, but the census was too low to accurately calculate statistical significance.
- BMI significantly declined during deployment for all subgroups except for officers.

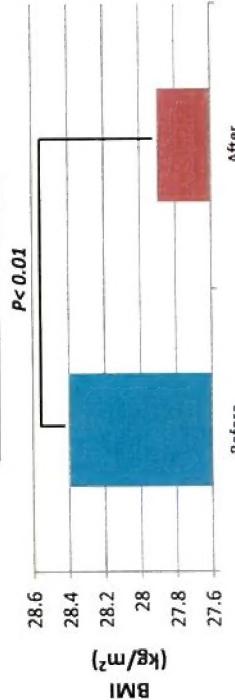
HbA1c Changes Before and After Deployment



Methods

- Design: Retrospective analysis
- HbA1c and BMI were obtained within 6 months prior to deployment and within 6 months of repatriation.
- All subjects completed a deployment of at least 90 days.

BMI Before and After Deployment



Acknowledgements

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- Assistance with graphics: Dr. Joshua Tate, Fellow, SAUSHEC Endocrinology Fellowship Program

The views expressed are those of the authors and do not reflect the official views or policy of the Department of Defense or its Components